

Name \_\_\_\_\_ Date \_\_\_\_\_

## Properties of Real Numbers – Practice A

Match each expression with one of the properties shown.

1. \_\_\_\_\_  $11 + 0 = 11$
2. \_\_\_\_\_  $x \times (y \times z) = (x \times y) \times z$
3. \_\_\_\_\_  $8 + (-8) = 0$
4. \_\_\_\_\_  $14 + 20 = 20 + 14$
5. \_\_\_\_\_  $2 \times \frac{1}{2} = 1$
6. \_\_\_\_\_  $22 \times 1 = 22$
7. \_\_\_\_\_  $(19 + 12) + 8 = 19 + (12 + 8)$
8. \_\_\_\_\_  $a \times 9 = 9 \times a$
9. \_\_\_\_\_  $7(4 + 11) = 7(4) + 7(11)$

- a. commutative property of addition
- b. commutative property of multiplication
- c. associative property of addition
- d. associative property of multiplication
- e. additive identity
- f. multiplicative identity
- g. distributive property
- h. additive inverse
- i. multiplicative inverse

Use the properties of real numbers to help simplify each expression mentally.

- |   |                                    |
|---|------------------------------------|
| 10. $(19 + 15) + 5 =$ _____             | 11. $-3 + (23 + 48) =$ _____       |
| 12. $\$9.50 + \$11.49 + \$0.50 =$ _____ | 13. $(9 \cdot 25) \cdot 4 =$ _____ |
| 14. $(-0.50 + 9.89) + 0.50 =$ _____     | 15. $6 \times 8 \times 5 =$ _____  |

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**16. Mental Math** Sparky went shopping at *Wally World* and bought a pair of socks for \$2.50, a pair of jeans for \$14.95, and some shoes for \$12.50. How much did Sparky spend during his shopping spree?

\_\_\_\_\_

Maybe  
I should have  
bought some shoes  
with a little  
more lift!

